

# SUICIDE MORTALITY

Arizona, 1988-1998



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# SUICIDE MORTALITY

## ARIZONA, 1988-1998

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MAY 2000

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# SUICIDE MORTALITY, ARIZONA, 1988-1998

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## PURPOSE

The purpose of this report is to provide information to individuals interested in suicide mortality among Arizona residents. The data for 1998 are placed in a temporal context by comparison with the data for the preceding years.

## METHODS AND SOURCES

Data on the number and characteristics of suicide deaths in Arizona were obtained from the death certificates filed with the Arizona Department of Health Services. Suicide is defined by the ICD codes\* E950-E959 for underlying cause of death.

Population denominators for Arizona residents, used to calculate rates, are projections from the Population Statistics Unit in the Arizona Department of Economic Security (data for 1988-1989 and 1993-1998) and the U.S. Census Bureau (data for 1990 and data by ethnic group for 1998).

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*\*International Statistical Classification of Diseases, Injuries and Causes of Death*  
Geneva: World Health Organization, 1977.

In order to obtain the 1991-1992 population denominators, the 1990 percentages of population breakdowns (or census shares) were applied to 1991 and 1992 total state or county population estimates published by the DES.

## DATA ORGANIZATION

Tables 1, 3-5, 7-11, 18, 21 and 22 present annual rates and numbers of suicides from 1988 to 1998. Temporal trends and changes may be assessed from these data. Tables 12-14 and 16-20 describe suicide mortality among Arizona residents in 1998 by such factors as county of residence, method of self-injury, month of occurrence, marital status, gender and ethnicity. Tables 21 and 22 provide information about the number of suicide deaths by single year of age among persons 19 or younger and 65 years and older. Table 23 provides evidence of striking differences in the risk of suicide death among native and non-native Arizonans.

## KEY FINDINGS

This section presents some illustrative findings contained in the figures and tables of the report. It is not intended to be an exhaustive analysis of the tabulated data. When possible, U.S. data as well as data for other states are presented in order to provide a comparative context for Arizona suicide mortality statistics.

✧ During 1998, a total of 845 Arizona residents committed suicide, an increase of 35 or 4.3 percent from the 1997 figure of 810 (**Table 1**).

✧ The Arizona age-adjusted suicide mortality rate increased from 16.3 suicides per 100,000 persons in 1996 to 16.9/100,000 in 1997, and 17.0/100,000 in 1998 (**Figure 1, Table 1**).

✧ Relative to the national rate, Arizonans were more likely to kill themselves in each year from 1988 to 1998 (**Figure 1, Table 1**).

✧ The 1998 Arizona suicide death rate was 70 percent higher than the national rate, and 62 percent higher than the year 2000 national health objective of 10.5 suicides per 100,000 population.

✧ The suicide mortality rate among adolescents dropped 36 percent from 23.7/100,000 in 1997 to a rate of 15.2/100,000 in 1998 (**Figure 3, Table 3**).

✧ In any given year between 1988 and 1997, the suicide rates among Arizona adolescents 15-19 years old were substantially greater than the suicide rates among their national peers (**Figure 3, Table 3**).

✧ Suicide rate among elderly Arizonans 65 years and older decreased by 2.1 percent from 24.1/100,000 in 1997 to 23.6/100,000 in 1998, the second lowest rate of the 1988-1998 period.

✧ All age-specific suicide mortality rates among Arizonans aged 65 and older exceeded by at least 12 percent the corresponding U.S. rates (**Figure 4**).

✧ In each year from 1988 to 1993, the suicide rate among elderly persons (65 years and older) was the highest among all age groups in Arizona (**Table 1**). In 1998, the highest suicide rate was among Arizonans 35-44 years old (**Table 1**).

✖ The age-adjusted suicide mortality rates for American Indian and non-Hispanic white residents of Arizona were at least 82 percent higher than the year 2000 national health objective of 10.5 suicides per 100,000 persons. In contrast, the 1998 age-adjusted suicide mortality rate among Blacks was 31.4 percent lower than the objective (**Figure 5**).

✖ Married Arizonans clearly were the least likely to end their own lives compared to Arizonans in other marital statuses (**Figure 6, Table 15**). Marital disruption in the form of divorce or death of a spouse was a factor that increased the risk of committing suicide. A divorced person was 4.2 times, a widowed person 2.3 times, and a never married person 2.6 times more likely to end his/her own life than a married Arizonan.

✖ Firearms accounted for 67.5 percent of suicide deaths in Arizona in 1998 (**Table 17**). Male suicides used firearms more frequently (72.8 percent) than female suicides (46.2 percent). Asian suicide victims were the least likely to use firearms (25.0 percent). American Indian suicides were equally likely to die from hanging or strangulation (43.5 percent), or firearm use (**Figure 7, Table 20**).

✖ Killing oneself is normally seen as the ultimate statement of individual failure to cope. This view is so dominant in American culture that it limits our efforts to understand and prevent suicide.

The suicide rates tend to be remarkably stable and there are consistent differences in the rates of suicide among different groups in a society. We tend to think of suicide as the ultimate act of desperation of sick individuals, although Emile Durkheim in his classic 1897 work "*Suicide: A Study in Sociology*" demonstrated that it is a **social phenomenon**.

It was Durkheim who proposed that **we need to look beyond individual characteristics in explaining the act of suicide**. For Durkheim, suicide is directly linked to the degree of cohesion present in a society and to person's feelings of social integration. According to Durkheim, suicide proneness exists only in relation to specific social conditions.

One of the indirect measures of social integration is the proportion of the population which is native born in an area. Arizona continues to be one of the states lowest in rates of native-born residents. According to the 1990 census, only one in three (34.1 percent) Arizonans were native born. Moreover, younger Arizonans are more likely to be native-born than

older adults. The 1990 rate of native-born among persons 64 years and younger (37.9 percent) was 4.5 times greater than the rate of 8.4 percent among elderly Arizonans.

Using the 1990 census counts of Arizona residents by state of birth, it is possible to compare suicide rates among native-born and non-native Arizonans.

✧ The average annual suicide mortality rate in the 1982-1998 period was 1.6 times higher for non-native (21.0 per 100,000) than native born Arizonans (12.9 per 100,000, **Figure 8, Table 23**). Non-natives were particularly over-represented among elderly suicides (95 percent of suicides among Arizonans 65 years and older). The suicide rate for non-native elderly (29.9) also was 1.6 times higher than the rate of 18.4 among their Arizona-born peers. Interestingly, the rate of suicide deaths among Arizona-born elderly was not only similar to or lower than many of the unadjusted annual rates for Arizonans of all ages between 1988 and 1998 (**Table 9**), but also similar to or lower than the national suicide rates among elderly 65 years and older\* (**Table 1**).

---

\* See also J.C. Gersten, F. Teitelbaum, C. Chapin. *Suicide in Arizona*. Research Notes. Vol. 2. No.1. Phoenix: Arizona Department of Health Services, June 1986.

✧ During 1997 (the latest year for which the age-specific suicide mortality rates are available by state), the suicide mortality rates among adolescents 15-19 years old ranged from 2.4/100,000 in Vermont to 27.2/100,000 in South Dakota. Arizona adolescents ranked second highest in the nation (**Figure 9**).

✧ Among persons 65-69 years old in 1997, suicide mortality rates ranged from a zero in the District of Columbia to 39.9 in Nevada. Arizona elderly in this age group ranked twentieth (**Figure 10**) among all states.

✧ Suicide mortality rates for 70-74 year olds ranged from zero (no fatalities) in the District of Columbia to 44.8 per 100,000 in Nevada. Arizona ranked sixth highest (**Figure 11**) among the 50 states and the District of Columbia.

✧ Among elderly 75-79 years old in 1997, suicide mortality rates ranged from a zero in North Dakota to 44.4/100,000 in Nevada. Arizona elderly ages 75-79 ranked third highest (**Figure 12**) in the nation.

✧ Suicide mortality rates ranged from a zero (no fatalities) in the District of Columbia to 112.2 per 100,000 elderly 80- 84 years old in Wyoming. Arizona ranked sixth highest (**Figure 13**) among the 50 states and the District of Columbia.

✧ Among persons 85 years and older in 1997, suicide mortality rates ranged from 5.1/100,000 in Rhode Island to 48.1/100,000 in Alaska. Arizona elderly in this age group ranked thirteenth (**Figure 14**) among all states.

✧ In 1997, the total age-adjusted suicide mortality rates ranged from 6.6/100,000 in New Jersey to 22.0 in Nevada. Arizona ranked eighth highest among the 50 states and the District of Columbia in its suicide mortality rate for all ages (**Figure 15**).

✧ Gender-specific age-adjusted suicide mortality rates indicate that men are more likely than women to commit suicide (**Table 8**). The 1998 male suicide rate (27.3/100,000) was 4 times greater than the corresponding female rate (6.8/100,000). Approximately 8 out of every ten suicide victims (79.8 percent) in 1998 were males.

✧ The age-adjusted suicide deaths rates varied in Arizona in 1998 from 11.9/100,000 among Santa Cruz County residents, to 34.9 suicides per 100,000 residents of La Paz County (**Figure 16**).

✧ The average age of Arizonans who died in 1998 from a self-inflicted injury was 44.5 years. Compared to non-Hispanic whites, on average American Indians were 18.2 years younger at the time of suicide death, Blacks were 14.3

years younger, while Hispanics were 13.8 years younger (**Table 6**). The majority (495 out of 642, or 72.6 percent) of white non-Hispanic suicide victims in 1998 were at least 35 years old. In contrast, only 19.6 percent of suicides among American Indian residents of Arizona, 36.4 percent of suicides among Blacks, and 36.7 percent of suicides among Hispanics were at least this old.

✧ The proportion of suicide which occurred each month in 1998 varied from 6.9 to 9.5 percent (**Table 11**). The highest proportions of suicides occurred in May, July, August and September, while the lowest monthly proportions occurred in February and October.

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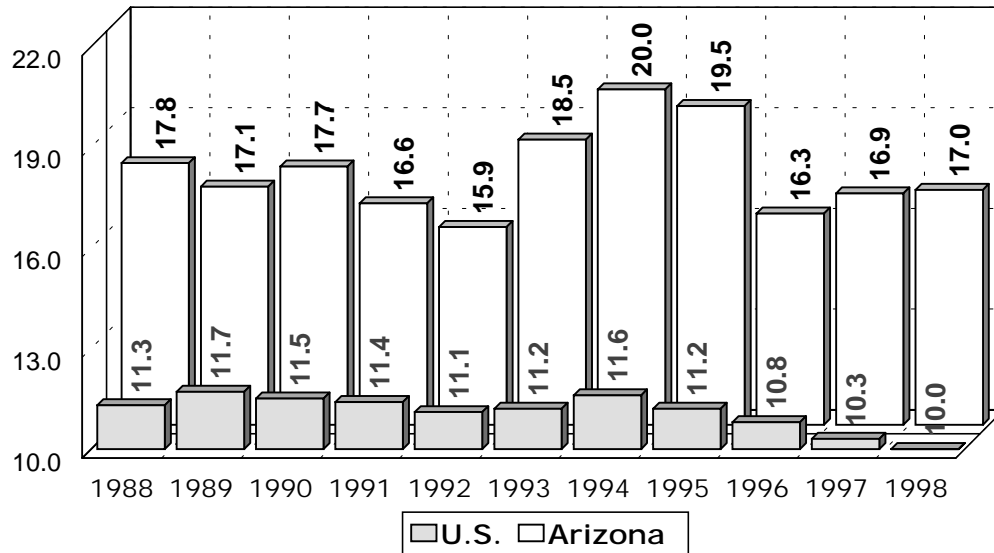
SUICIDE MORTALITY, ARIZONA, 1988-1998

# FIGURES

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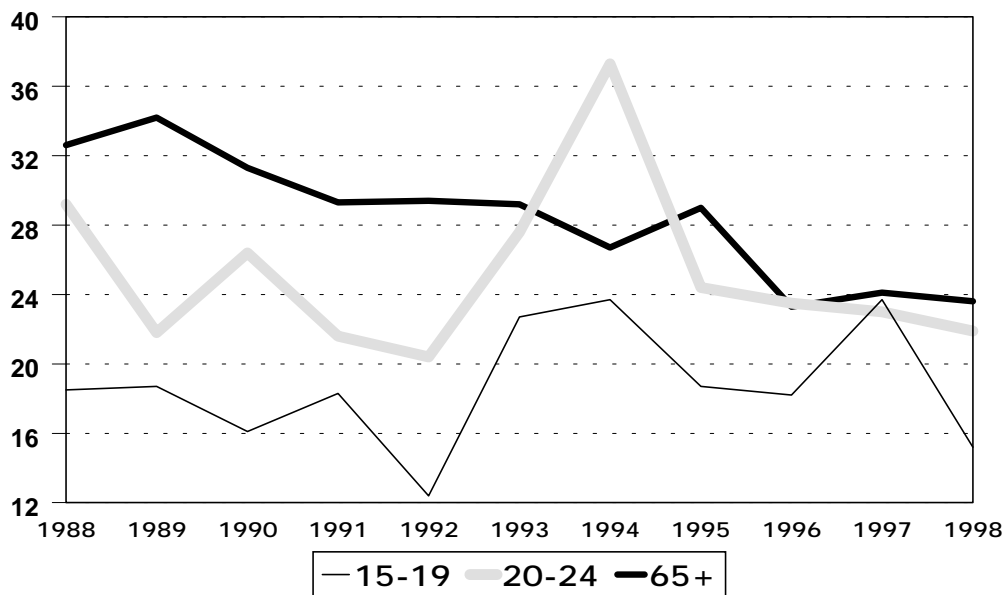


**FIGURE 1**  
**AGE-ADJUSTED\* SUICIDE MORTALITY RATES BY YEAR,**  
**ARIZONA AND UNITED STATES, 1988-1998**



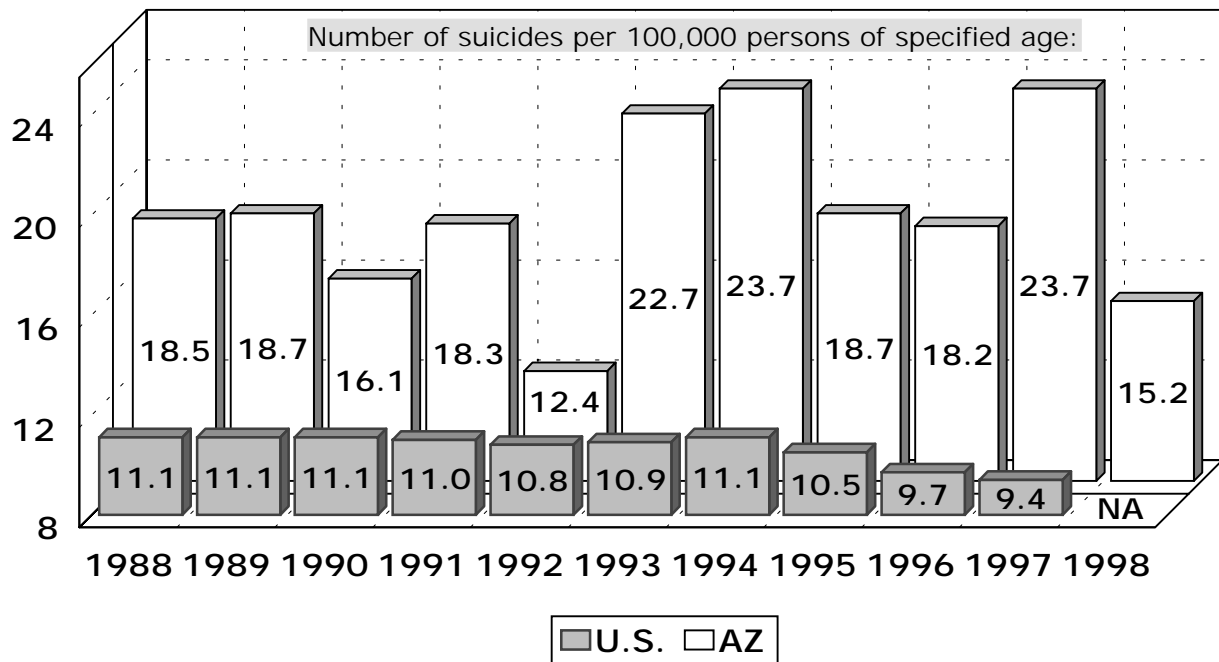
\*Adjusted to U.S. population of 1940.

**FIGURE 2**  
**COMPARISON OF SUICIDE MORTALITY RATES FOR ADOLESCENTS**  
**(15-19 YEARS OLD), YOUNG ADULTS (20-24 YEARS OLD) AND ELDERLY**  
**(65 YEARS AND OLDER), ARIZONA, 1988-1998**

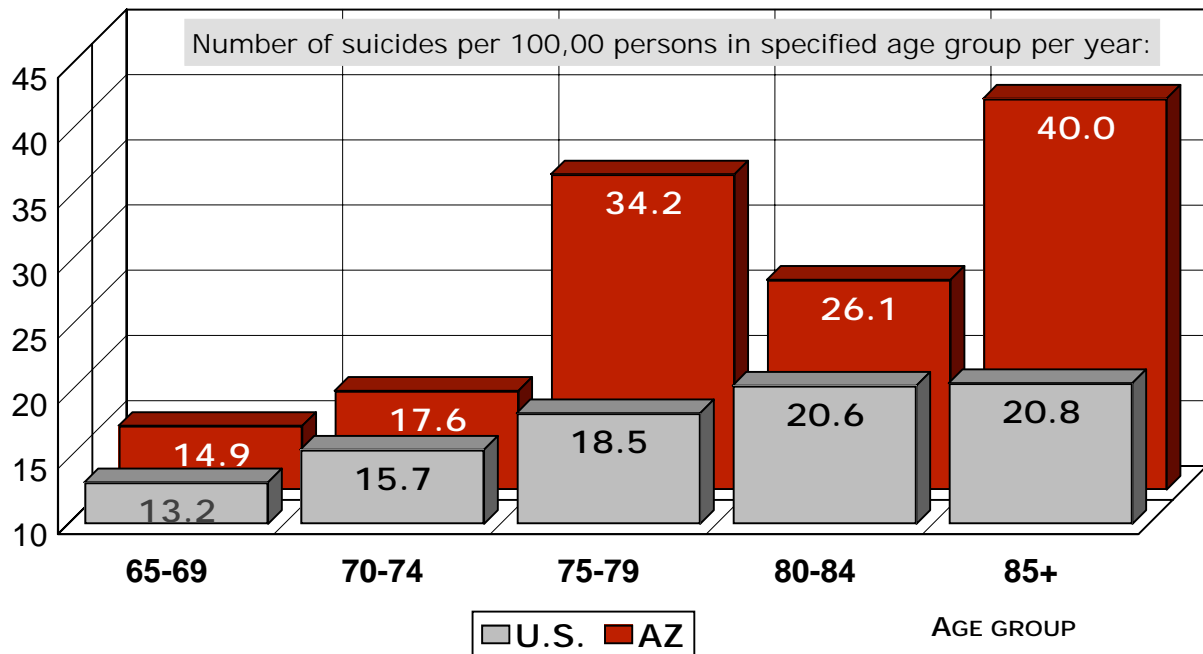


Number of suicide deaths per 100,000 persons in specified age group.

**FIGURE 3**  
**SUICIDE MORTALITY RATES AMONG ADOLESCENTS 15-19 YEARS OLD,**  
**ARIZONA AND UNITED STATES, 1988-1998**

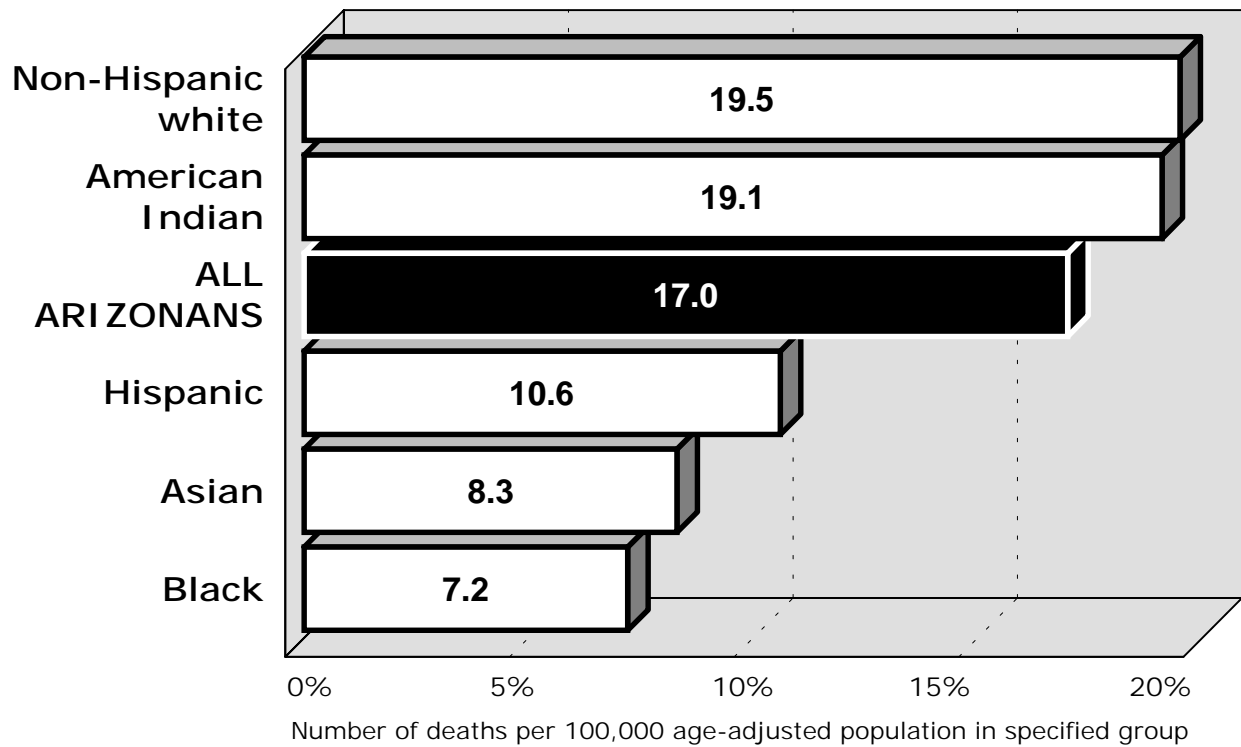


**FIGURE 4**  
**SUICIDE MORTALITY RATES BY AGE GROUP AMONG ELDERLY**  
**65 YEARS AND OLDER, ARIZONA (1998) AND UNITED STATES (1997) \***

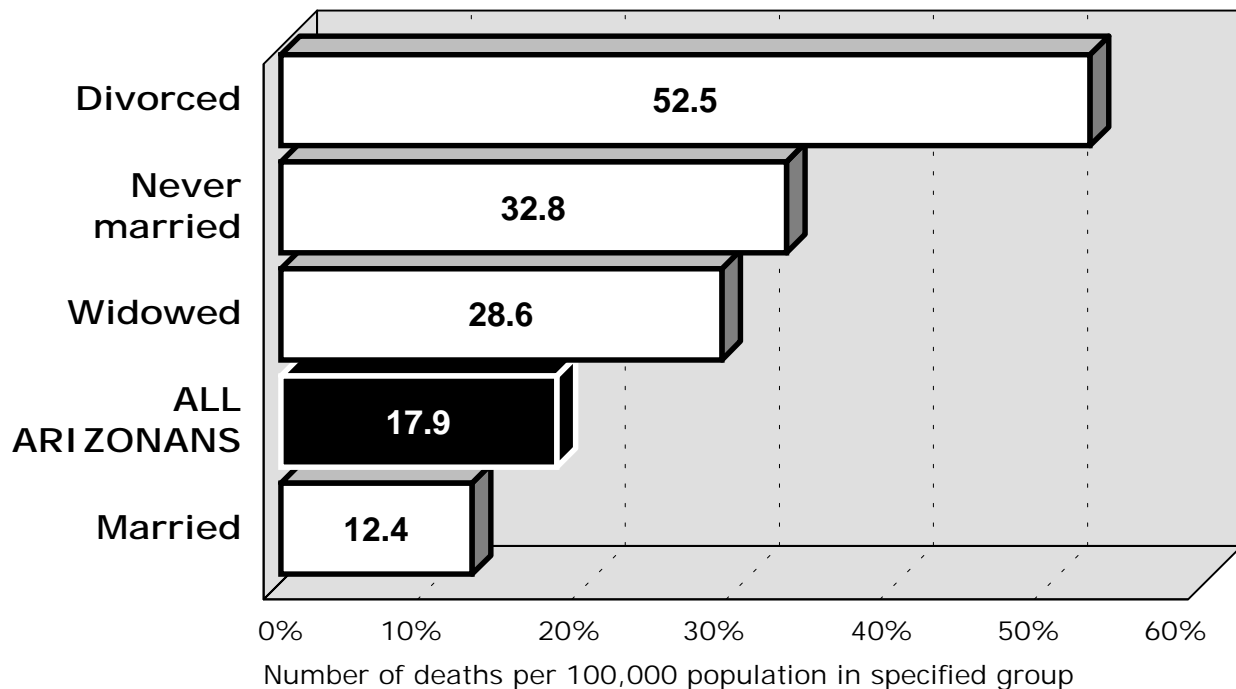


\*The latest year for which the U.S. suicide mortality rates are available by age group.

**FIGURE 5**  
**AGE-ADJUSTED MORTALITY RATES FOR SUICIDE BY ETHNIC GROUP, ARIZONA, 1998**

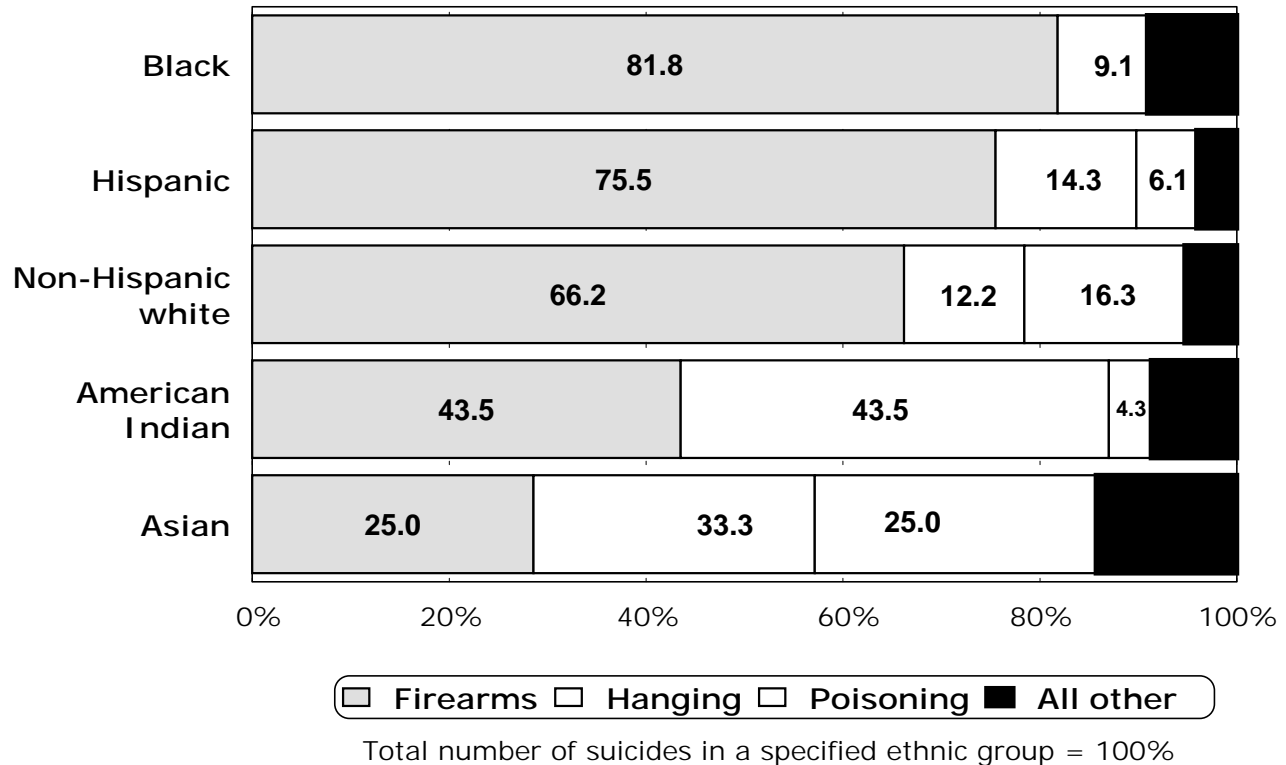


**FIGURE 6**  
**MORTALITY RATES FOR SUICIDE BY MARITAL STATUS, ARIZONA, 1998**

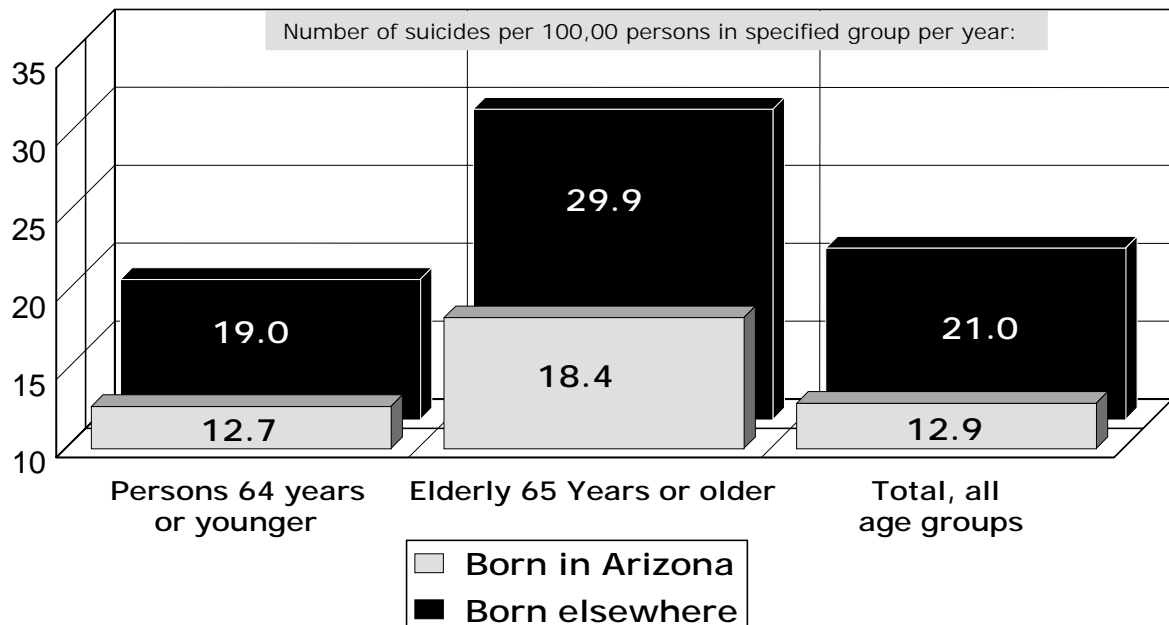


Note: In order to obtain population denominators by marital status for 1998, the 1990 census shares were applied to 1998 total projected state population of persons 15 years and over.

**FIGURE 7**  
**SUICIDE MORTALITY BY MEANS OF INJURY AND ETHNIC GROUP, ARIZONA, 1998**

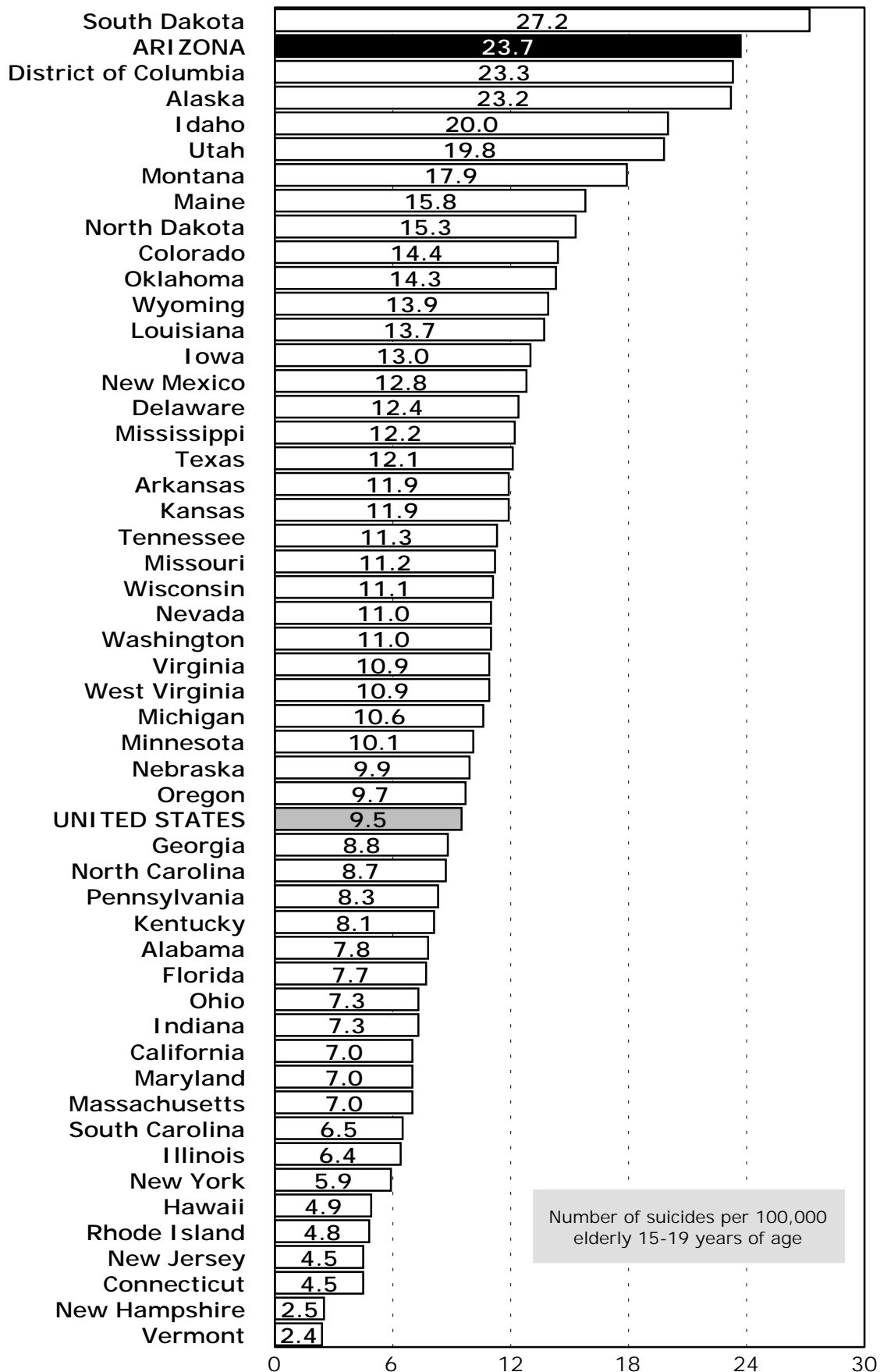


**FIGURE 8**  
**DIFFERENCES IN THE RISK\* OF SUICIDE DEATH AMONG NATIVE-BORN AND NON-NATIVE ARIZONANS, 1982-1998**



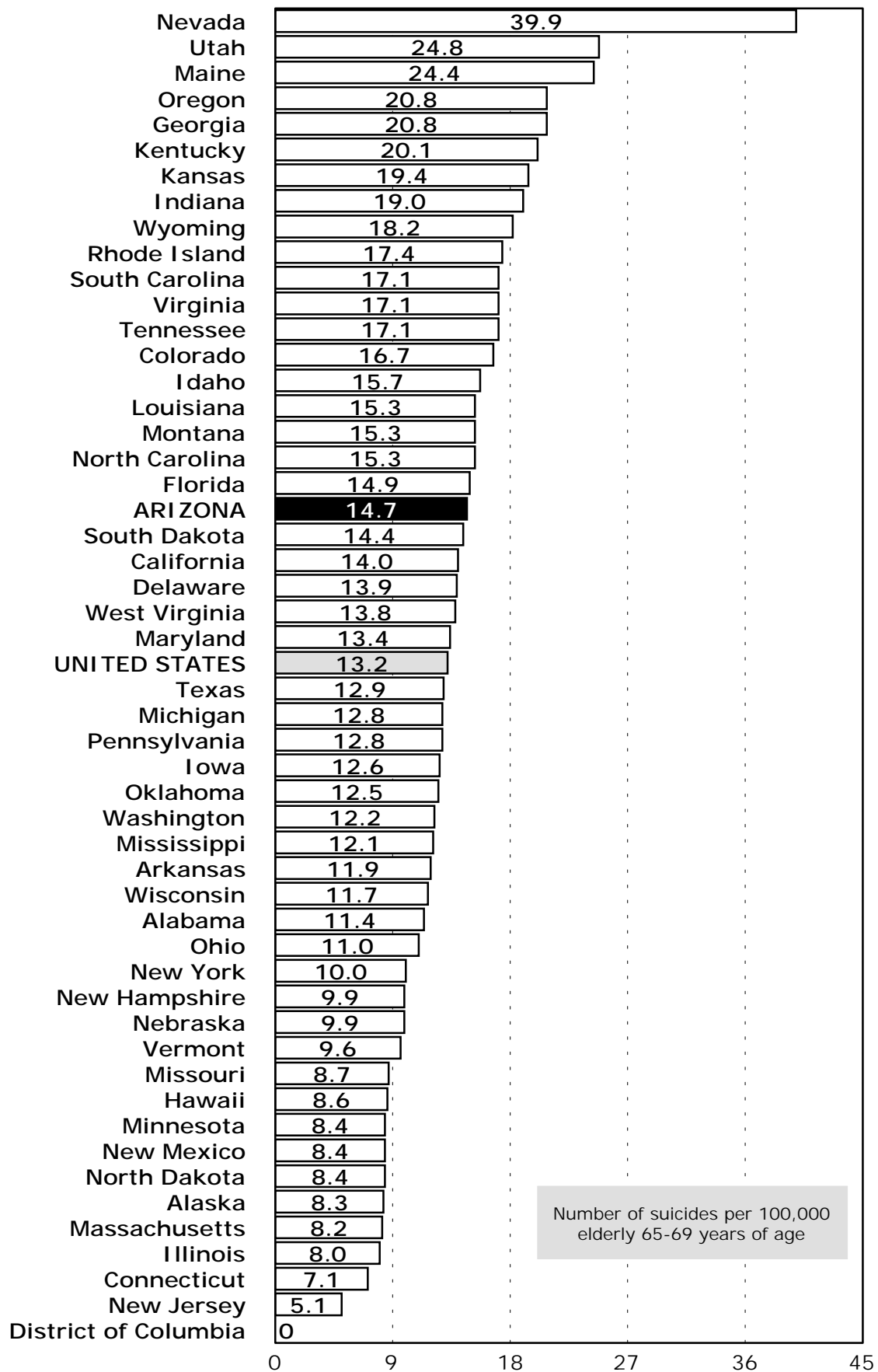
\*These are the average annual suicide mortality rates calculated for the entire period 1982-1998. The 1990 census counts (i.e., population at mid-point) multiplied by seventeen were used as the denominators for average annual rate calculation.

**FIGURE 9**  
**SUICIDE MORTALITY RATES FOR ADOLESCENTS 15-19 YEARS BY STATE IN 1997\***



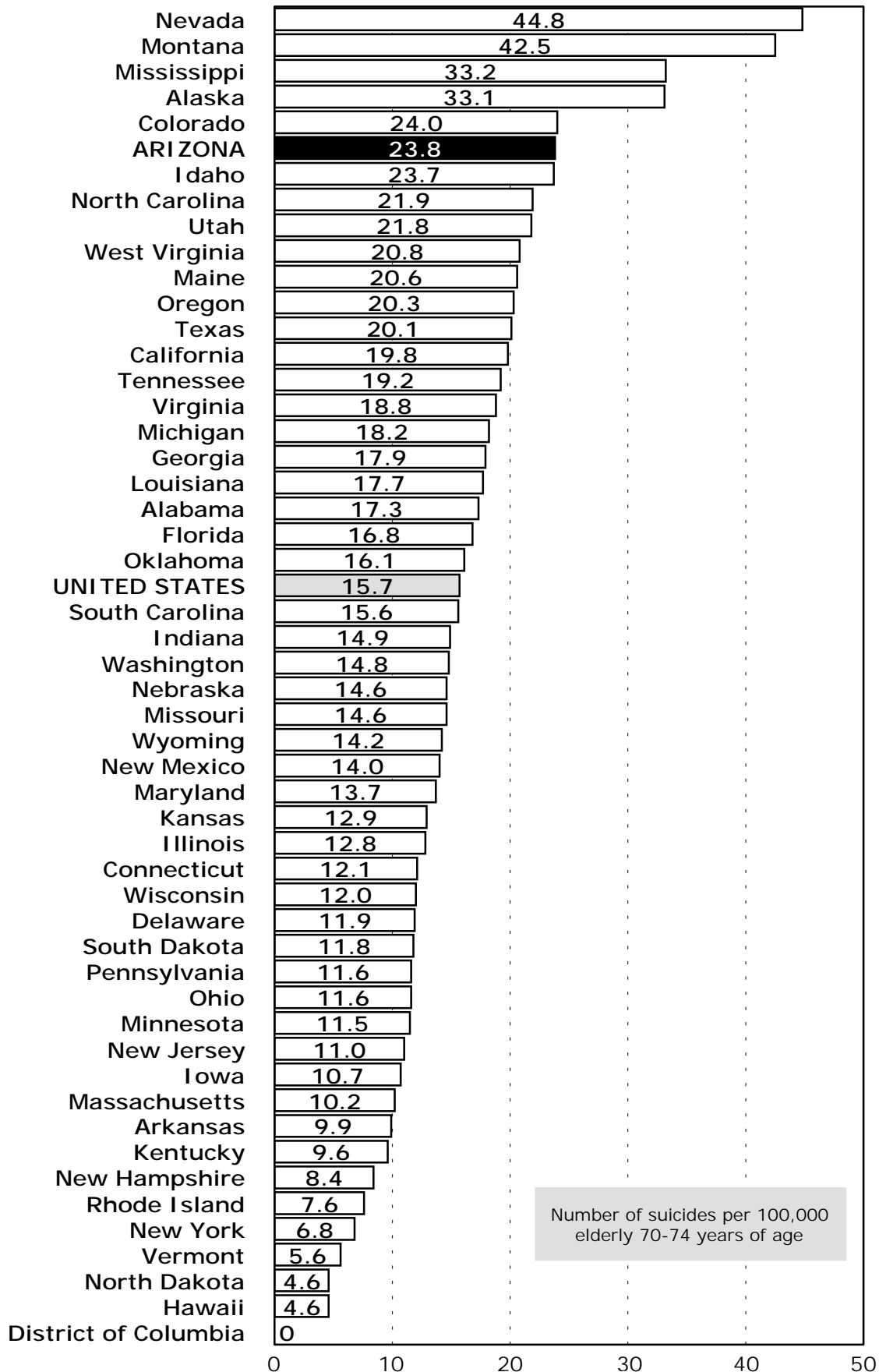
\* This is the latest year for which the data are available by state, All rates except those for Arizona  
 Except Arizona, all rates are from the Injury Mortality Dataset available at: <http://wonder.cdc.gov/injury.shtml>

**FIGURE 10**  
**SUICIDE MORTALITY RATES FOR ELDERLY 65-69 YEARS BY STATE IN 1997\***



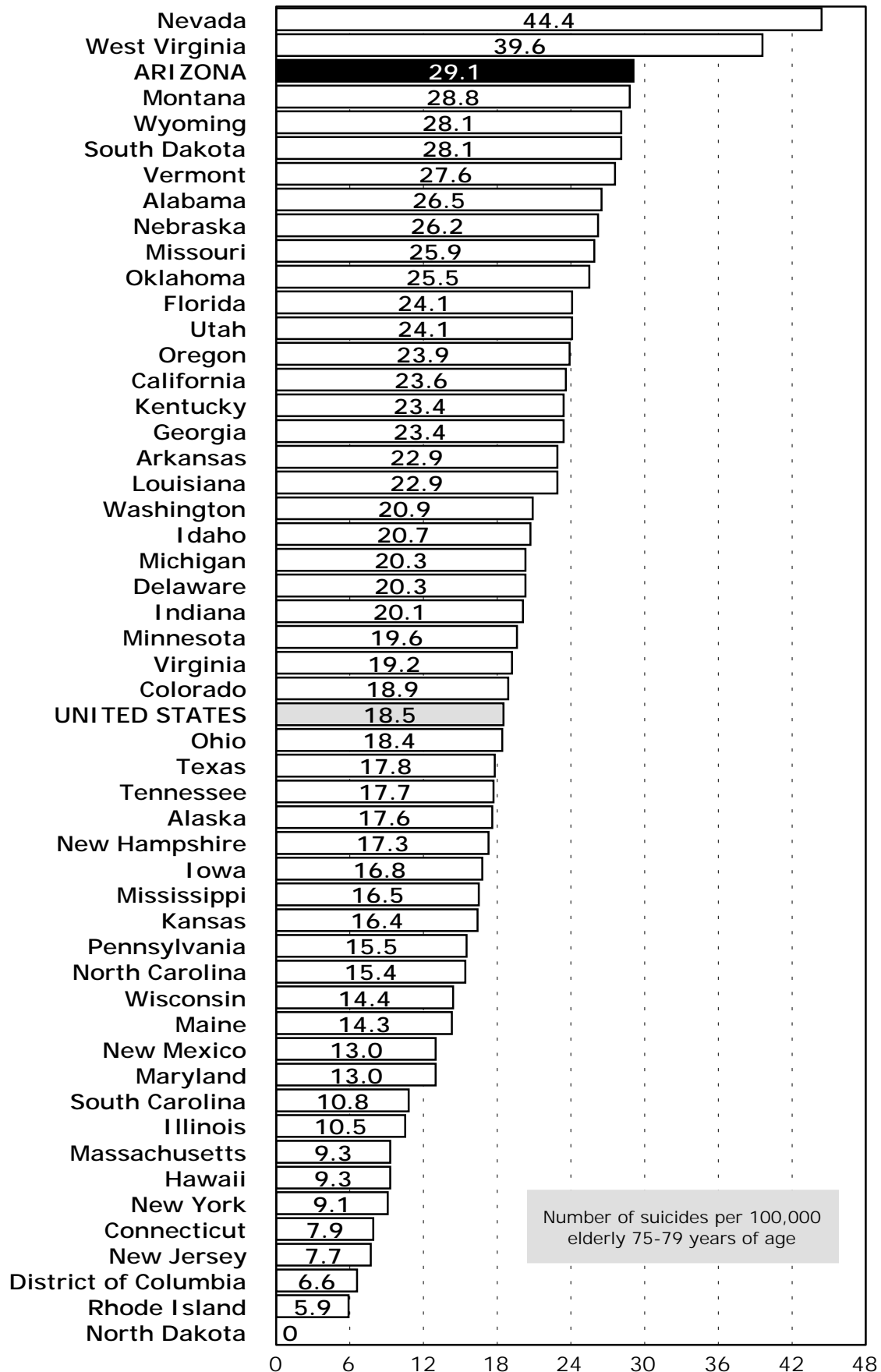
\* This is the latest year for which the data are available by state. All rates except those for Arizona  
 Except Arizona, all rates are from the Injury Mortality Dataset available at: <http://wonder.cdc.gov/injury.shtml>

**FIGURE 11**  
**SUICIDE MORTALITY RATES FOR ELDERLY 70-74 YEARS BY STATE IN 1997\***



\* This is the latest year for which the data are available by state. All rates except those for Arizona. Except Arizona, all rates are from the Injury Mortality Dataset available at: <http://wonder.cdc.gov/injury.shtml>

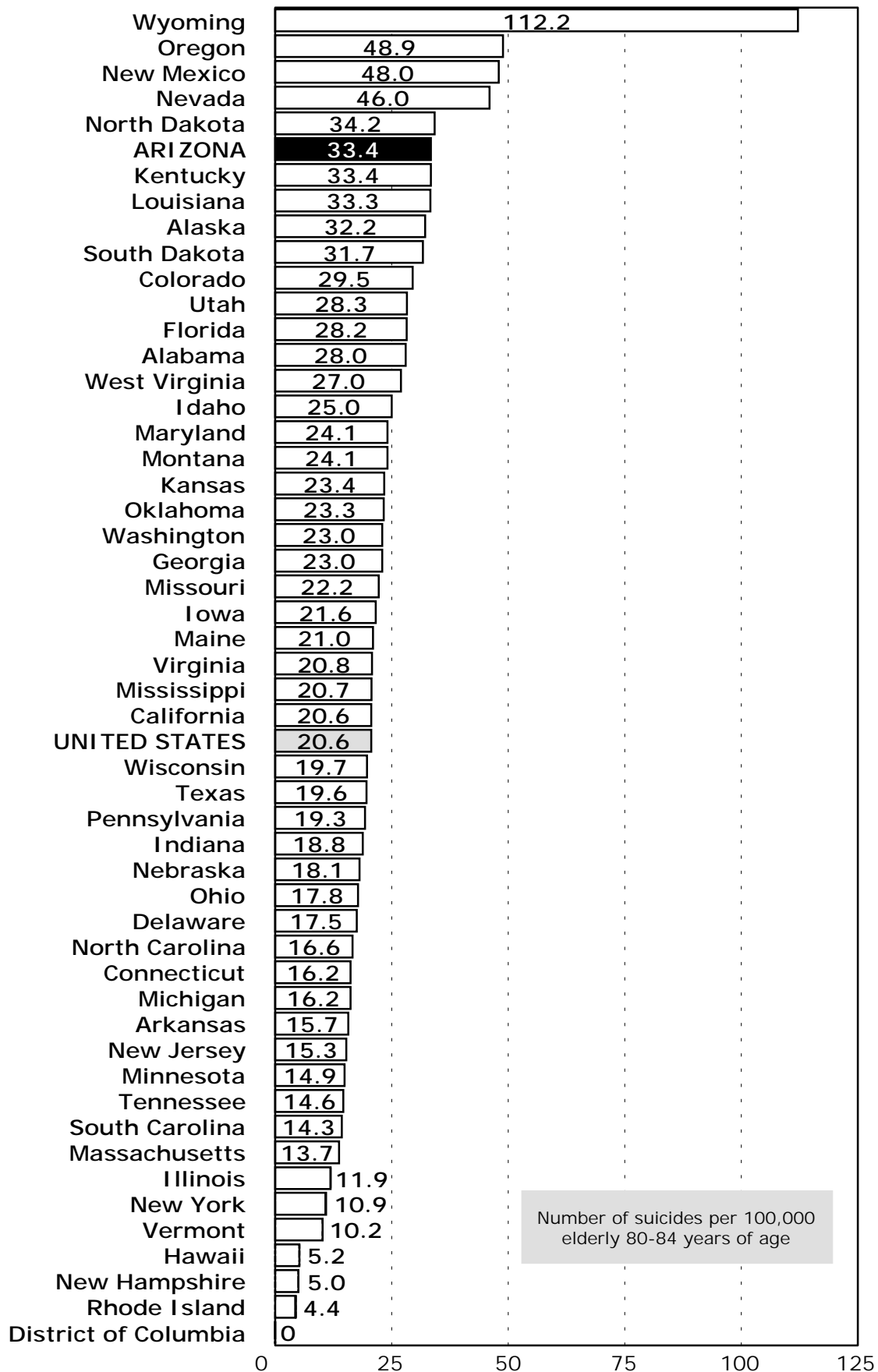
**FIGURE 12**  
**SUICIDE MORTALITY RATES FOR ELDERLY 75-79 YEARS BY STATE IN 1997\***



\* This is the latest year for which the data are available by state. All rates except those for Arizona. Except Arizona, all rates are from the Injury Mortality Dataset available at: <http://wonder.cdc.gov/injury.shtml>

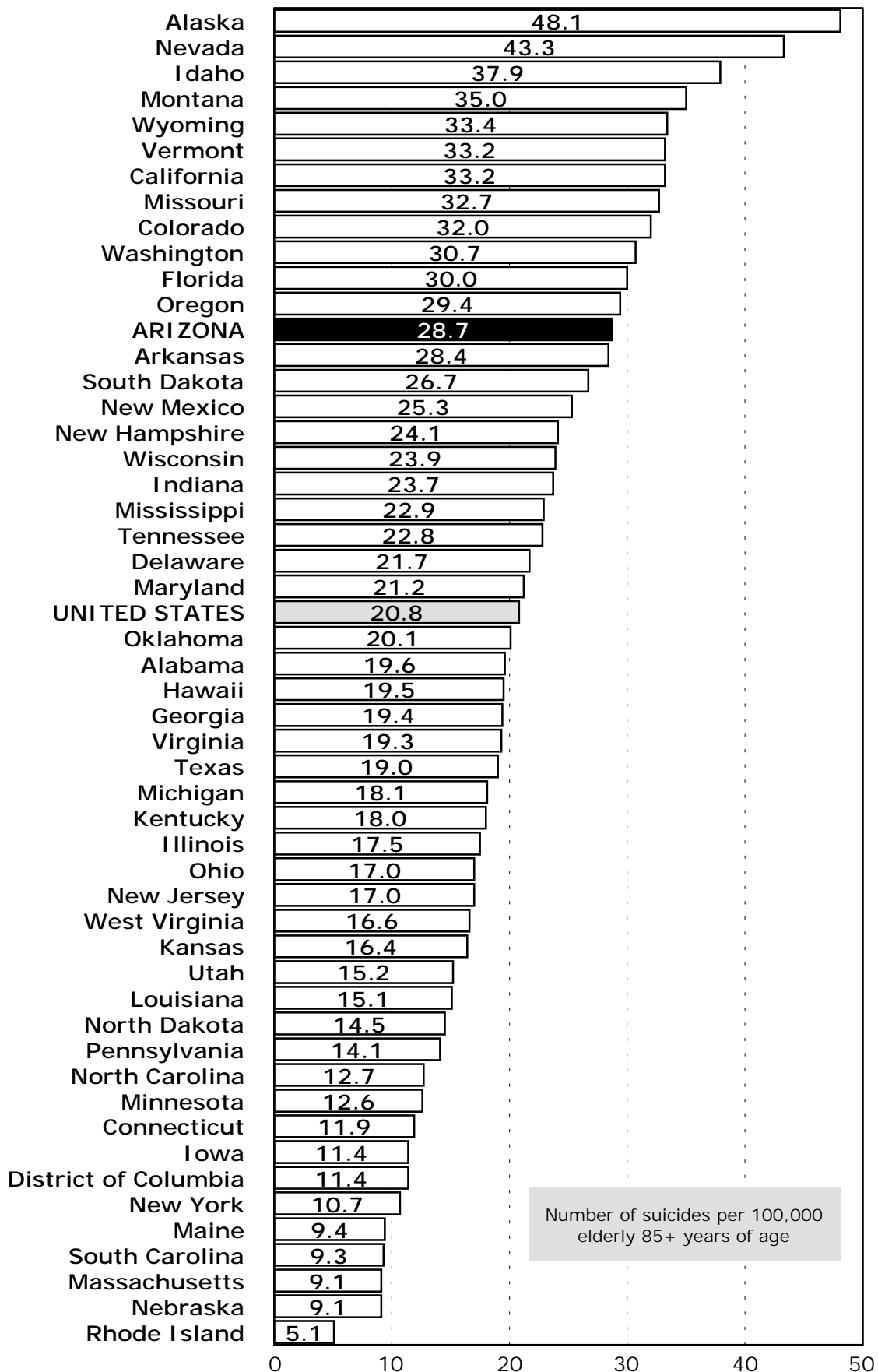


**FIGURE 13**  
**SUICIDE MORTALITY RATES FOR ELDERLY 80-84 YEARS BY STATE IN 1997\***



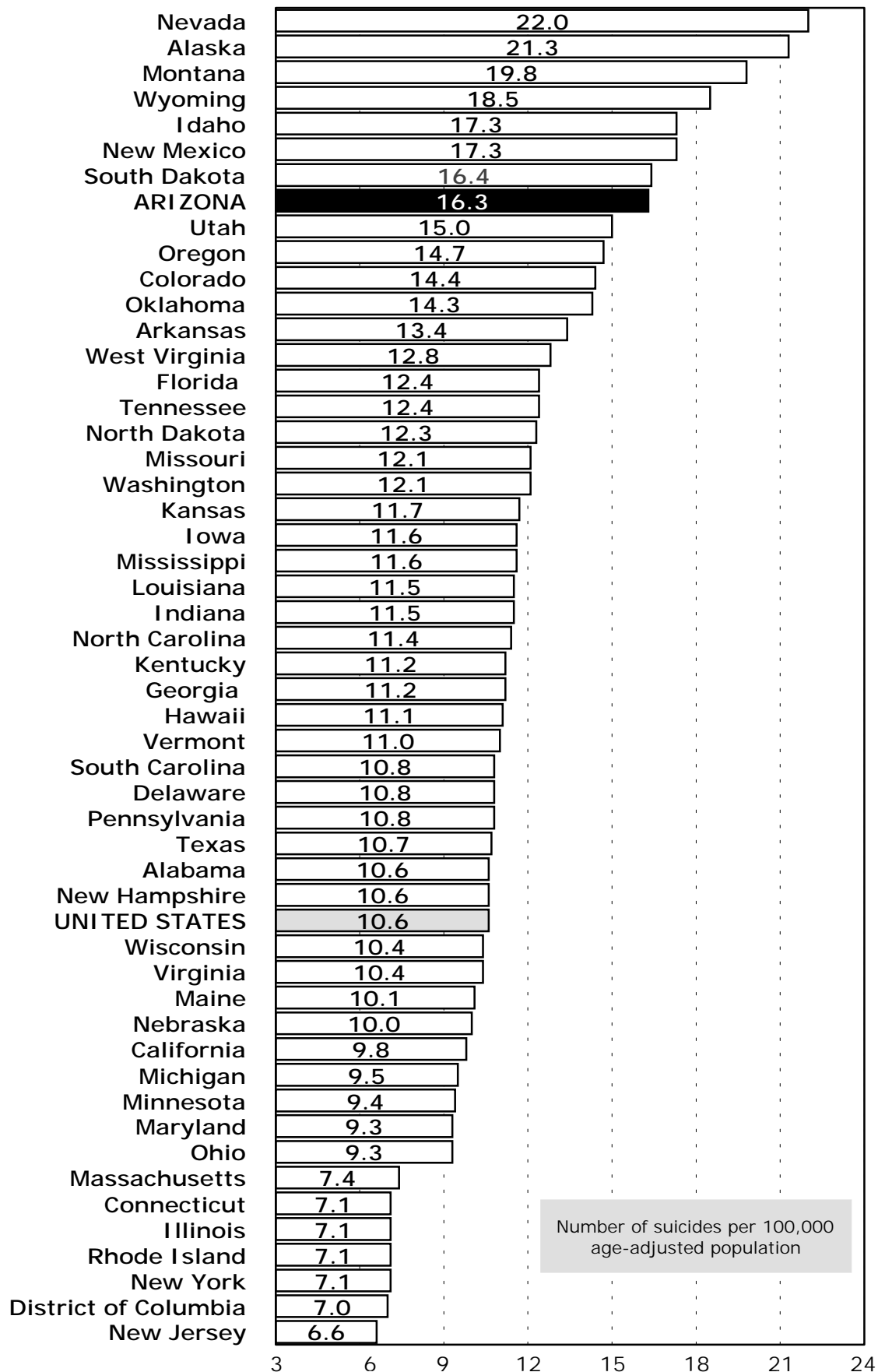
\* This is the latest year for which the data are available by state. All rates except those for Arizona  
 Except Arizona, all rates are from the Injury Mortality Dataset available at: <http://wonder.cdc.gov/injury.shtml>

**FIGURE 14**  
**SUICIDE MORTALITY RATES FOR ELDERLY 85 YEARS OR OLDER BY STATE IN 1997\***



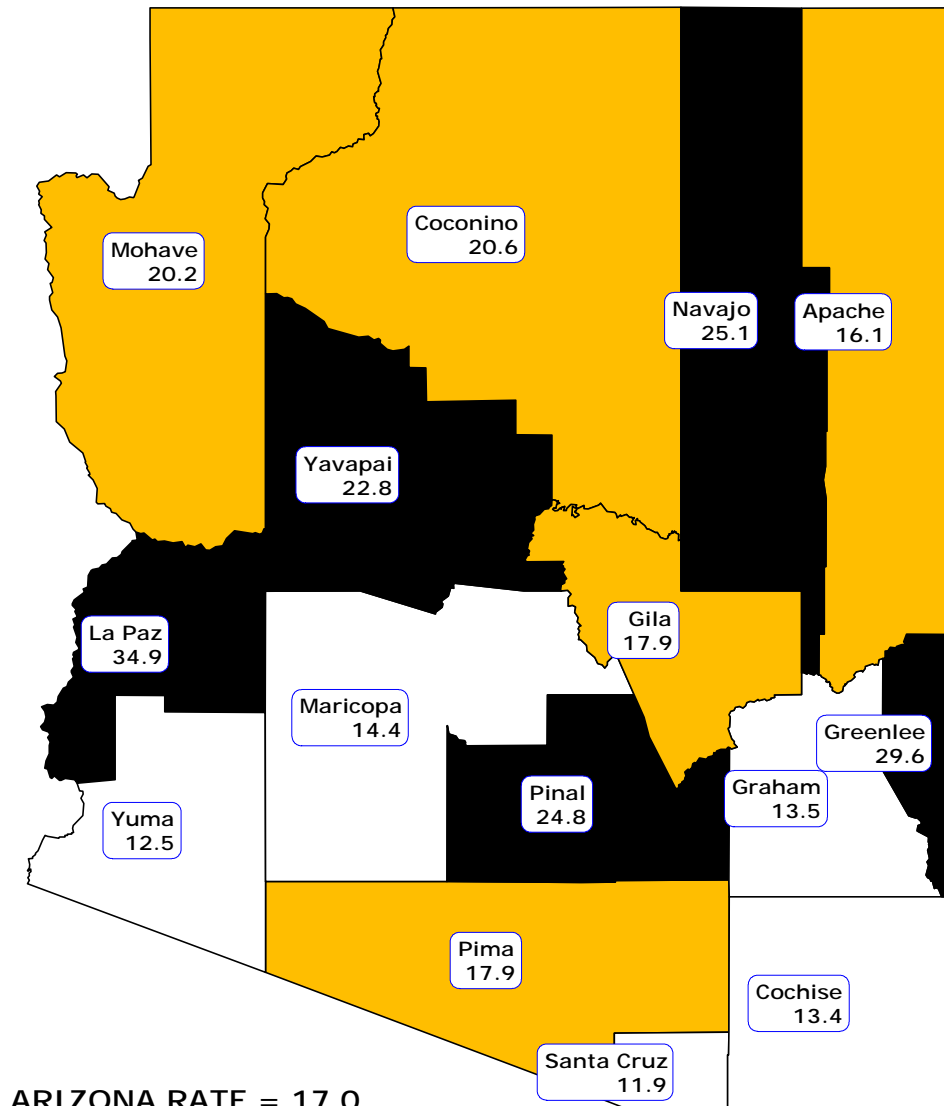
\* This is the latest year for which the data are available by state, All rates except those for Arizona  
 Except Arizona, all rates are from the Injury Mortality Dataset available at: <http://wonder.cdc.gov/injury.shtml>

**FIGURE 15**  
**AGE-ADJUSTED SUICIDE MORTALITY RATES BY STATE IN 1997\***



\* This is the latest year for which the data are available by state. All rates except those for Arizona  
 Except Arizona, all rates are from the Injury Mortality Dataset available at: <http://wonder.cdc.gov/injury.shtml>

**FIGURE 16**  
**AGE-ADJUSTED SUICIDE MORTALITY RATES**  
**BY COUNTY OF RESIDENCE, ARIZONA 1998**



*Number of deaths per 100,000 population (age-adjusted):*

□ 11.9 to 14.4    ■ 14.5 to 20.6    ■ 20.7 to 34.9

Note: Many rates shown above are based on a small population, a small number of events, or both. Rates based on small numbers (10 or less) are not statistically reliable.

SUICIDE MORTALITY, ARIZONA, 1988-1998

# DATA TABLES

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**TABLE 1**  
**AGE-SPECIFIC<sup>a</sup> AND TOTAL AGE-ADJUSTED<sup>b</sup> SUICIDE MORTALITY RATES,**  
**ARIZONA AND UNITED STATES, 1988-1998 AND AVERAGE AGE AT DEATH FROM**  
**SUICIDE FOR ARIZONA**

YEAR	AREA	AGE GROUPS:						Total Age-Adjusted Suicide Mortality Rate	Average Age at Death from Suicide
		15-24	25-34	35-44	45-54	55-64	65+		
1988	AZ	24.0	24.0	21.7	19.9	22.5	32.6	17.8 (666)	44.2
	U.S.	12.8	15.5	14.3	14.8	15.7	21.1	11.3	
1989	AZ	20.3	20.3	25.5	17.7	25.1	34.2	17.1 (669)	45.7
	U.S.	13.8	15.8	14.7	16.0	16.2	20.3	11.7	
1990	AZ	21.5	25.2	21.2	22.0	24.0	31.3	17.7 (692)	44.7
	U.S.	13.6	15.1	14.4	14.4	15.2	20.5	11.5	
1991	AZ	20.0	19.3	20.5	26.5	20.5	29.3	16.6 (658)	45.2
	U.S.	13.1	14.1	14.6	14.0	14.3	19.7	11.4	
1992	AZ	16.0	19.5	23.5	20.4	23.5	29.4	15.9 (660)	45.8
	U.S.	12.9	14.2	14.4	14.5	14.5	19.1	11.1	
1993	AZ	25.3	24.0	23.6	22.4	21.7	29.2	18.5 (755)	43.5
	U.S.	13.8	14.9	14.5	14.1	14.2	18.9	11.2	
1994	AZ	30.8	25.8	26.3	23.9	20.5	26.7	20.0 (816)	42.2
	U.S.	14.9	16.0	15.4	13.2	14.5	18.1	11.6	
1995	AZ	21.6	30.0	30.0	22.5	19.8	29.0	19.5 (858)	44.0
	U.S.	13.3	15.4	15.2	14.6	13.3	18.1	11.2	
1996	AZ	20.9	22.3	24.4	21.8	14.9	23.3	16.3 (762)	43.8
	U.S.	12.1	12.0	14.5	15.5	14.9	17.3	10.8	
1997	AZ	23.4	22.4	26.3	20.3	14.6	24.1	16.9 (810)	43.3
	U.S.	11.4	14.3	15.3	14.7	13.5	NA	10.6	
1998	AZ	18.5	23.6	26.3	24.2	17.6	23.6	17.0 (845)	44.5
	U.S.	10.8	NA	NA	NA	NA	NA	10.0	

<sup>a</sup> Number of suicides per 100,000 population in specified age groups.

<sup>b</sup> The age-adjusted rates presented in this report were computed by the direct method, that is by applying the age-specific death rate for suicide to the standard population distributed by age. The total U.S. population as enumerated in 1940 was selected as the standard. The "age-adjustment" or "age-standardization" removes the effects of the age differences in population composition.

<sup>c</sup> The number in parenthesis is the number of suicides to Arizona residents.

**TABLE 2**  
**TEN STATES WITH THE HIGHEST SUICIDE DEATH RATES<sup>a</sup> FOR PERSONS OF ALL AGES,**  
**1987, 1990 AND 1997<sup>b</sup>**

1987			1990			1997		
Rank	State	Suicide death rate <sup>c</sup>	Rank	State	Suicide death rate <sup>c</sup>	Rank	State	Suicide death rate <sup>c</sup>
1	Nevada	26.4	1	Nevada	24.5	1	Nevada	24.5
2	New Mexico	20.1	2	Montana	20.9	2	Alaska	21.1
<b>3</b>	<b>ARIZONA</b>	<b>19.8</b>	3	Idaho	19.1	3	Montana	20.8
4	Montana	19.5	<b>4</b>	<b>ARIZONA</b>	<b>18.9</b>	4	Wyoming	19.8
5	Alaska	17.9	5	New Mexico	18.7	5.5	Idaho	17.3
6	Colorado	17.1	6	Wyoming	17.9	5.5	New Mexico	17.3
7.5	Florida	16.8	7	Colorado	16.8	7	South Dakota	17.2
7.5	Vermont	16.8	8	Florida	16.1	8	Oregon	16.5
9	Wyoming	15.9	9	Oregon	15.8	<b>9</b>	<b>ARIZONA</b>	<b>16.3</b>
10	Washington	15.4	10	Utah	15.3	10	Colorado	15.7
	<b>UNITED STATES</b>	<b>12.7</b>		<b>UNITED STATES</b>	<b>12.4</b>		<b>UNITED STATES</b>	<b>11.4</b>

<sup>a</sup> Number of suicides per 100,000 population (unadjusted for differences in the age-composition).

<sup>b</sup> The latest year for which the total suicide mortality rates are available by state.



**TABLE 3**  
**NUMBER OF SUICIDES AND SUICIDE RATE<sup>a</sup> FOR PERSONS 15-24 YEARS OLD**  
**BY AGE GROUP AND YEAR, ARIZONA AND UNITED STATES, 1988-1998**

Year	Area	Under 15 Years <sup>b</sup>	15-24 Years		
			Total, 15-24 Years	15-19 Years	20-24 Years
1988	AZ	2.0 (5)	24.0 (126)	18.5 (47)	29.2 (59)
	U.S.	1.4	12.8	11.1	14.6
1989	AZ	1.1 (3)	20.3 (107)	18.7 (48)	21.8 (59)
	U.S.	1.4	13.8	11.1	14.8
1990	AZ	1.6 (4)	21.5 (116)	16.1 (42)	26.4 (74)
	U.S.	1.5	13.6	11.1	15.1
1991	AZ	2.3 (6)	20.0 (111)	18.3 (49)	21.6 (62)
	U.S.	1.5	13.1	11.0	14.9
1992	AZ	3.7 (10)	16.0 (91)	12.4 (34)	20.4 (57)
	U.S.	1.7	12.9	10.8	14.9
1993	AZ	3.8 (11)	25.3 (139)	22.7 (58)	27.6 (81)
	U.S.	1.7	13.8	10.9	15.8
1994	AZ	3.1 (9)	30.8 (170)	23.7 (62)	37.3 (108)
	U.S.	2.1	14.9	11.1	16.4
1995	AZ	3.7 (11)	21.6 (123)	18.7 (52)	24.4 (71)
	U.S.	1.7	13.3	10.5	16.2
1996	AZ	2.2 (7)	20.9 (128)	18.2 (56)	23.5 (72)
	U.S.	1.6	12.1	9.7	14.5
1997	AZ	2.1 (7)	23.4 (147)	23.7 (75)	23.0 (72)
	U.S.	1.6	12.1	9.4	13.6
1998	AZ	3.5 (12) <sup>c</sup>	18.5 (120)	15.2 (50)	21.9 (70)
	U.S.	NA <sup>d</sup>	10.8	NA	NA

<sup>a</sup> Number of suicides per 100,000 population in specified group.

<sup>b</sup> Population 10-14 years old.

<sup>c</sup> Numbers in parentheses are the numbers of suicide deaths in specified age groups of Arizona residents.

<sup>d</sup> Not available.

Note: U.S. datasets for 1990-1997 are available online at [www.cdc.gov/wonder/anox/injury.shtml](http://www.cdc.gov/wonder/anox/injury.shtml)

**TABLE 4**  
**NUMBER OF SUICIDES FOR PERSONS 15-19 YEARS OLD BY COUNTY OF RESIDENCE AND YEAR,**  
**ARIZONA 1988-1998**

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>APACHE</b>	2	1	1	2	0	1	0	1	1	4	1
<b>COCHISE</b>	3	3	1	3	0	3	3	1	2	0	1
<b>COCONINO</b>	1	0	3	2	2	1	1	3	2	1	2
<b>GILA</b>	0	1	1	1	2	0	1	1	0	0	0
<b>GRAHAM</b>	1	2	0	0	0	0	0	1	1	0	2
<b>GREENLEE</b>	1	0	0	0	0	1	0	0	0	0	0
<b>MARICOPA</b>	18	19	25	27	16	30	32	28	32	41	25
<b>MOHAVE</b>	4	1	1	0	2	2	1	0	2	2	0
<b>NAVAJO</b>	1	4	2	1	1	3	2	1	2	3	1
<b>PIMA</b>	9	10	5	6	5	8	9	4	7	11	12
<b>PINAL</b>	5	1	0	3	2	2	2	1	2	3	1
<b>SANTA CRUZ</b>	0	1	0	1	0	0	0	0	0	0	0
<b>YAVAPAI</b>	1	1	2	3	0	1	3	2	0	1	1
<b>YUMA</b>	0	4	0	0	2	1	0	2	0	1	1
<b>LA PAZ</b>	1	0	1	0	0	0	0	0	0	0	1
<b>UNKNOWN</b>	0	0	0	0	2	5	8	7	5	8	2
<b>TOTAL</b>	47	48	42	49	34	58	62	52	56	75	50

**TABLE 5**  
**NUMBER OF SUICIDES FOR ELDERLY (65 YEARS AND OVER) BY COUNTY OF RESIDENCE AND YEAR,**  
**ARIZONA 1988-1998**

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>APACHE</b>	1	1	1	2	1	0	0	2	1	0	0
<b>COCHISE</b>	4	3	8	5	3	2	5	6	3	6	8
<b>COCONINO</b>	1	3	0	2	0	2	1	1	2	0	4
<b>GILA</b>	0	5	5	1	6	4	5	6	1	4	6
<b>GRAHAM</b>	2	0	0	0	2	0	0	2	0	1	2
<b>GREENLEE</b>	0	0	0	0	0	0	1	1	0	0	0
<b>MARICOPA</b>	76	71	76	69	60	70	67	82	81	71	74
<b>MOHAVE</b>	10	3	6	10	12	10	6	11	6	9	11
<b>NAVAJO</b>	1	2	2	1	3	2	0	0	1	1	3
<b>PIMA</b>	32	32	20	28	36	32	31	36	21	33	25
<b>PINAL</b>	3	4	8	6	6	7	6	6	13	6	2
<b>SANTA CRUZ</b>	0	0	0	2	1	2	1	0	1	0	0
<b>YAVAPAI</b>	6	19	17	8	14	15	9	12	8	14	13
<b>YUMA</b>	4	5	4	9	3	3	9	4	6	6	8
<b>LA PAZ</b>	3	8	3	1	1	2	0	1	0	3	0
<b>TOTAL</b>	143	156	150	144	148	151	141	170	144	154	156

**TABLE 6**  
**AVERAGE AGE AT DEATH FROM SUICIDE BY ETHNICITY AND GENDER,**  
**ARIZONA, 1990 - 1998**

Ethnic/Gender Group	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>All Ethnic Groups, total<sup>a</sup></b>	44.7	45.2	45.8	43.5	42.2	43.9	43.9	43.9	44.5
---Male	44.1	45.5	44.8	43.6	41.4	43.7	43.6	43.6	44.0
---Female	47.5	44.8	50.0	43.1	45.9	44.9	45.3	45.3	46.0
<b>White<sup>b</sup>, total</b>	46.7	48.1	48.2	46.3	45.5	46.3	46.8	46.8	47.4
---Male	46.1	48.0	47.3	46.8	44.7	46.2	46.8	46.8	47.2
---Female	49.9	48.6	51.8	44.3	48.3	46.7	47.0	47.0	47.8
<b>Hispanic, total</b>	37.7	38.0	36.5	30.7	29.6	32.0	32.2	32.2	33.6
---Male	38.7	38.5	36.1	30.3	29.9	31.1	31.8	31.8	34.1
---Female	33.1	35.6	39.4	33.2	26.9	37.1	35.9	35.9	23.0
<b>American Indian, total</b>	31.5	29.6	33.4	30.9	30.2	31.8	30.7	30.7	29.2
---Male	32.2	30.6	33.1	30.5	28.8	31.7	29.8	29.8	29.8
---Female	29.8	28.4	35.4	33.7	36.6	32.5	33.7	33.7	26.5
<b>Black, total</b>	29.9	30.3	34.5	26.8	27.6	33.8	28.5	28.5	33.1
---Male	29.3	31.2	35.8	25.3	27.5	36.8	28.4	28.4	31.8
---Female	40.5	26.9	27.0	34.5	28.0	25.6	29.0	29.0	36.7

<sup>a</sup> Includes records with ethnic groups other than white, Hispanic, American Indian or Black.

<sup>b</sup> Not of Hispanic origin.

**TABLE 7**  
**NUMBER OF SUICIDES BY ETHNIC GROUP, AGE GROUP AND YEAR,**  
**ARIZONA, 1990-1998**

		1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Non-Hispanic white	<15	2	2	3	5	8	8	5	7	4	4	6
	15-19	33	30	30	28	26	36	36	33	34	38	27
	20-24	60	40	53	44	35	55	65	45	43	45	42
	25-34	112	108	123	91	90	118	123	143	106	115	111
	35-44	95	115	91	82	108	112	133	158	140	157	163
	45-54	53	55	68	80	61	84	83	96	101	94	122
	55-64	64	67	68	57	70	58	58	61	50	48	62
	65+	137	149	142	136	139	148	139	161	136	143	148
	Unknown	2	0	1	1	0	0	0	0	1	1	1
	TOTAL	558	566	579	524	537	619	642	704	615	645	682
Hispanic	<15	1	0	0	0	1	1	1	1	1	1	3
	15-19	6	8	3	10	3	13	16	12	13	24	14
	20-24	9	10	9	8	13	15	30	18	20	12	17
	25-34	21	13	16	14	21	23	21	27	22	22	28
	35-44	4	14	11	15	11	12	16	19	19	12	17
	45-54	7	5	6	10	7	1	10	6	3	4	10
	55-64	1	3	3	6	3	5	3	2	1	4	2
	65+	3	7	5	5	6	3	1	4	7	7	7
	TOTAL	52	60	53	68	65	73	98	89	86	86	98
Black	<15	0	1	0	1	0	0	0	2	0	0	0
	15-19	1	2	1	6	1	4	1	4	1	3	1
	20-24	1	2	5	2	1	2	6	2	3	4	2
	25-34	6	6	4	7	7	4	4	5	6	5	4
	35-44	2	1	4	3	1	1	2	1	2	3	1
	45-54	1	0	0	1	2	1	1	2	1	2	2
	55-64	0	0	0	0	0	0	0	0	0	0	1
	65+	2	0	1	2	1	0	0	3	0	2	0
	TOTAL	13	12	15	22	13	12	14	19	13	19	11
American Indian	<15	2	0	1	0	1	2	3	1	2	1	3
	15-19	7	7	8	5	4	5	8	3	7	10	5
	20-24	6	7	7	8	7	9	6	5	4	8	9
	25-34	11	9	14	13	11	12	19	18	18	11	20
	35-44	4	3	5	10	9	14	9	11	6	10	7
	45-54	4	1	2	3	4	4	4	1	3	6	0
	55-64	0	2	1	0	1	2	2	1	1	0	1
	65+	1	0	2	1	2	0	0	1	1	2	1
	TOTAL	35	29	40	40	39	48	51	41	42	48	46
Asian	<15	0	0	0	0	0	0	0	0	0	1	0
	15-19	0	1	0	0	0	0	1	0	1	0	3
	20-24	3	0	0	0	1	0	1	1	2	3	0
	25-34	1	0	3	1	1	0	2	0	1	3	2
	35-44	2	0	1	1	2	1	1	1	0	3	2
	45-54	0	0	1	0	0	1	4	0	1	1	0
	55-64	0	1	0	0	0	1	0	0	0	1	1
	65+	0	0	0	0	0	0	1	1	0	0	0
	TOTAL	6	2	5	2	4	3	10	3	5	12	8
All Ethnic groups, total	<15	5	3	4	6	10	11	9	11	7	7	12
	15-19	47	48	42	49	34	58	62	52	56	75	50
	20-24	79	59	74	62	57	81	108	71	72	72	70
	25-34	151	136	160	126	130	157	170	193	153	156	165
	35-44	107	133	112	111	131	140	161	190	167	185	190
	45-54	65	61	77	95	75	91	102	105	109	107	134
	55-64	65	73	72	63	74	66	63	65	52	53	67
	65+	143	156	150	144	148	151	141	170	144	154	156
	Unknown	4	0	1	2	1	0	0	1	2	1	1
	TOTAL	666	669	692	658	660	755	816	858	762	810	845

**TABLE 8**  
**NUMBER OF SUICIDES AND AGE-ADJUSTED SUICIDE MORTALITY RATES<sup>a</sup>**  
**BY GENDER AND YEAR, ARIZONA, 1988-1998**

GENDER	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>MALE</b>											
--Number	542	548	573	541	532	617	663	671	619	662	674
--Rate	29.4	28.5	29.9	27.6	26.4	30.6	32.9	30.8	26.8	27.8	27.3
<b>FEMALE</b>											
--Number	124	121	119	117	128	137	153	187	143	148	171
--Rate	6.6	6.4	6.0	6.0	5.8	6.7	7.3	8.4	5.9	6.4	6.8
<b>TOTAL</b>											
--Number	666	669	692	658	660	775 <sup>b</sup>	816	858	762	810	845
--Rate	17.8	17.1	17.7	16.6	15.9	18.5	20.0	19.5	16.3	16.9	17.0
Rate ratio, M:F	4.5	4.5	5.0	4.6	4.6	4.6	4.5	3.7	4.5	4.6	4.0
Percent MALE suicide <sup>c</sup>	81.4	81.9	82.8	82.2	80.6	79.6	81.3	78.2	81.2	81.7	79.8

<sup>a</sup> Number of suicides per 100,000 population in specified group.

<sup>b</sup> Includes one record with unspecified gender.

<sup>c</sup> TOTAL suicides = 100 percent.

**TABLE 9**  
**SUICIDE MORTALITY RATES<sup>a</sup> BY COUNTY OF RESIDENCE, ARIZONA, 1988-1998**

COUNTY OF RESIDENCE	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Apache	20.2	10.5	16.2	22.4	12.7	15.6	4.6	14.1	20.2	26.0	13.6
Cochise	15.6	16.3	21.5	22.2	14.8	13.6	26.9	22.8	13.9	14.6	16.9
Coconino	10.6	19.4	12.4	16.1	16.8	21.2	17.9	25.5	22.0	17.3	21.9
Gila	9.9	24.4	34.8	9.9	28.2	26.1	25.9	38.4	28.7	26.0	25.5
Graham	20.3	15.9	--	7.4	18.1	17.8	14.0	19.1	9.6	15.5	15.0
Greenlee	31.5	--	--	--	--	23.6	23.4	35.3	11.6	22.9	22.6
La Paz	35.0	76.1	36.1	21.4	20.2	26.6	6.5	24.2	44.0	37.3	25.9
Maricopa	17.7	16.6	18.2	15.8	14.6	17.3	17.3	18.0	15.3	15.0	15.1
Mohave	29.5	14.4	28.9	28.3	32.2	32.0	34.5	27.7	16.4	21.9	23.3
Navajo	12.9	23.9	20.6	21.6	24.9	30.6	26.5	26.6	16.6	21.1	23.1
Pima	21.3	18.4	17.8	18.6	19.1	18.4	21.1	18.3	15.5	17.9	18.7
Pinal	20.9	15.9	29.2	26.9	19.6	19.2	21.3	20.5	24.3	15.5	24.2
Santa Cruz	10.0	6.5	3.5	16.2	9.7	9.4	12.3	9.0	8.6	11.2	10.9
Yavapai	23.5	42.6	32.5	22.3	29.8	22.2	32.3	33.7	22.2	26.5	27.1
Yuma	16.4	19.3	11.2	16.3	12.4	13.0	16.1	13.0	15.2	14.8	14.5
ARIZONA	18.5	18.0	18.9	17.5	17.1	19.1	20.2	20.5	17.1	17.6	17.9

<sup>a</sup> Rates per 100,000 population (unadjusted for differences in the age composition).

**Note: Many rates shown in this table are based on a small population, a small number of events, or both. Rates based on small numbers (10 or less) are not statistically reliable.**

**TABLE 10**  
**NUMBER OF SUICIDES BY COUNTY OF RESIDENCE AND YEAR, ARIZONA 1998-1998**

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
APACHE	13	7	10	14	8	10	3	9	13	17	9
COCHISE	16	17	21	22	15	14	28	25	16	17	20
COCONINO	10	19	12	16	17	22	19	28	25	20	26
GILA	4	10	14	4	12	11	11	17	13	12	12
GRAHAM	5	4	0	2	5	5	4	6	3	5	5
GREENLEE	3	0	0	0	0	2	2	3	1	2	2
MARICOPA	366	358	386	345	327	395	404	437	402	407	425
MOHAVE	24	12	27	28	34	35	39	35	21	29	32
NAVAJO	10	19	16	17	20	25	22	22	14	18	20
PIMA	146	131	119	127	134	132	155	137	121	143	153
PINAL	23	18	34	32	24	24	27	28	35	23	37
SANTA CRUZ	3	2	1	5	3	3	4	3	3	4	4
YAVAPAI	23	43	35	25	34	26	39	43	30	37	39
YUMA	15	18	12	18	14	15	19	16	19	19	19
LA PAZ	5	11	5	3	3	4	1	4	8	7	5
UNKNOWN	0	0	0	0	10	32	39	45	38	50	37
TOTAL	666	669	692	658	660	755	816	858	762	810	845



**TABLE 11**  
**SUICIDE MORTALITY BY MONTH AND YEAR,**  
**ARIZONA 1988-1998**

		1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>MONTH OF DEATH</b>	<b>JAN</b>	60	59	74	59	62	67	50	77	77	75	79
	<b>FEB</b>	53	49	62	50	64	65	78	61	62	42	58
	<b>MARCH</b>	50	64	66	62	59	61	63	82	65	68	69
	<b>APRIL</b>	55	53	58	66	46	67	75	69	66	58	70
	<b>MAY</b>	61	58	56	58	58	53	78	71	65	78	77
	<b>JUNE</b>	57	66	51	65	58	64	62	76	62	81	70
	<b>JULY</b>	62	58	55	47	58	67	68	81	75	80	80
	<b>AUG</b>	58	61	46	67	52	68	78	89	66	71	79
	<b>SEPT</b>	55	64	64	58	50	63	67	81	68	75	77
	<b>OCT</b>	56	47	58	48	43	58	69	57	57	61	58
	<b>NOV</b>	43	40	56	45	55	51	75	62	65	59	68
	<b>DEC</b>	56	50	46	33	55	71	53	52	34	62	60
<b>TOTAL</b>		666	669	692	658	660	755	816	858	762	810	845

**TABLE 12**  
**AGE-SPECIFIC\* AND TOTAL SUICIDE MORTALITY RATES BY COUNTY OF RESIDENCE,**  
**Arizona, 1998**

County	<15	15-19	20-24	35-44	45-54	55-64	65+	All ages
Arizona	1.1	15.2	21.9	24.2	24.2	17.6	23.6	17.9
Apache	.0	14.5	18.7	.0	.0	24.6	.0	13.6
Cochise	.0	10.9	.0	27.9	27.9	.0	47.1	16.9
Coconino	.0	20.2	30.6	28.8	28.8	13.4	51.0	21.9
Gila	.0	.0	41.9	52.2	52.2	.0	57.9	25.5
Graham	.0	67.7	.0	29.8	29.8	.0	50.1	15.0
Greenlee	.0	.0	.0	94.8	94.8	.0	.0	22.7
La Paz	.0	81.7	93.5	.0	.0	.0	.0	25.9
Maricopa	.8	13.3	18.4	19.8	19.8	19.5	20.7	15.2
Mohave	3.8	.0	16.5	36.3	36.3	6.2	33.3	23.3
Navajo	3.8	12.7	53.2	11.0	11.0	28.7	34.8	23.1
Pima	1.8	21.7	17.4	28.9	28.9	13.8	19.8	18.7
Pinal	.0	8.9	22.7	43.4	43.4	27.7	8.4	24.2
Santa Cruz	.0	.0	41.4	25.8	25.8	35.8	.0	10.9
Yavapai	.0	11.3	.0	50.1	50.1	23.8	34.3	27.1
Yuma	.0	9.9	20.0	7.9	7.9	20.5	40.8	14.5

\* Number of suicides per 100,000 population in specified group.

Note: Many rates shown in this table are based on a small population, a small number of events (see Table 13), or both. Rates based on small numbers (10 or less) are not statistically reliable.

**TABLE 13**  
**NUMBER OF SUICIDES BY COUNTY OF RESIDENCE AND AGE GROUP**  
**ARIZONA, 1998**

	<15	15-19	20-24	25-34	35-44	45-54	55-64	65+	Unknown	TOTAL
<b>APACHE</b>	0	1	1	4	2	0	1	0	0	9
<b>COCHISE</b>	0	1	0	1	6	4	0	8	0	20
<b>COCONINO</b>	0	2	4	7	3	4	1	4	1	26
<b>GILA</b>	0	0	1	0	2	3	0	6	0	12
<b>GRAHAM</b>	0	2	0	0	0	1	0	2	0	5
<b>GREENLEE</b>	0	0	0	1	0	1	0	0	0	2
<b>MARICOPA</b>	5	25	35	83	95	66	42	74	0	425
<b>MOHAVE</b>	1	0	1	4	8	6	1	11	0	32
<b>NAVAJO</b>	1	1	3	5	4	1	2	3	0	20
<b>PIMA</b>	3	12	10	31	35	28	9	25	0	153
<b>PINAL</b>	0	1	2	7	13	8	4	2	0	37
<b>SANTA CRUZ</b>	0	0	1	0	1	1	1	0	0	4
<b>YAVAPAI</b>	0	1	0	4	8	9	4	13	0	39
<b>YUMA</b>	0	1	2	3	2	1	2	8	0	19
<b>LA PAZ</b>	0	1	1	1	2	0	0	0	0	5
<b>UNKNOWN</b>	2	2	9	14	9	1	0	0	0	37
<b>TOTAL</b>	12	50	70	165	190	134	67	156	1	845

**TABLE 14**  
**NUMBER OF SUICIDES AND SUICIDE MORTALITY RATES BY AGE GROUP AND GENDER,**  
**ARIZONA, 1998**

	Male		Female		Total	
	Count	Rate	Count	Rate	Count	Rate
<b>&lt;15</b>	10	5.5	2	1.2	12	3.5
<b>15-19</b>	44	25.5	6	3.9	50	15.2
<b>20-24</b>	63	37.3	7	4.6	70	21.9
<b>25-34</b>	131	36.5	34	10.0	165	23.6
<b>35-44</b>	148	41.3	42	11.5	190	26.3
<b>45-54</b>	102	37.7	32	11.3	134	24.2
<b>55-64</b>	44	24.4	23	11.5	67	17.6
<b>65+</b>	131	44.7	25	6.8	156	23.6
<b>Unknown</b>	1	NA	0	NA	1	NA
<b>TOTAL</b>	674	28.6	171	7.2	845	17.9

**TABLE 15**  
**SUICIDE MORTALITY BY MARITAL STATUS AND AGE GROUP AND SUICIDE MORTALITY RATES BY MARITAL STATUS,**  
**ARIZONA, 1998**

	MARITAL STATUS					TOTAL
	SINGLE, NEVER MARRIED	MARRIED	WIDOWED	DIVORCED	UNKNOWN	
<15	12	0	0	0	0	12
15-19	49	1	0	0	0	50
20-24	51	14	1	4	0	70
25-34	80	49	1	34	1	165
35-44	40	87	4	58	1	190
45-54	20	50	4	56	4	134
55-64	3	30	5	28	1	67
65+	8	77	52	18	1	156
Unknown	0	0	0	0	1	1
TOTAL	263	308	67	198	9	845
Rate per 100,000 persons in specified group:	32.8	12.4	28.6	52.5	NA	17.9

Note: In order to obtain the 1998 population denominators by marital status, the 1990 percentages of population breakdowns (or census shares) by marital status among persons 15 and over were applied to 1998 total state population projections of persons 15 and over.

**TABLE 16**  
**SUICIDE MORTALITY BY MEANS OF INJURY AND AGE GROUP,**  
**ARIZONA, 1998**

	<15	15-19	20-24	25-34	25-44	45-54	55-64	65+	Unknown	TOTAL
<b>Firearms and Explosives (E955)</b>	6	39	54	99	103	95	46	128	0	570
<b>Hanging, Strangulation or Suffocation (E953)</b>	5	8	13	28	33	12	8	13	0	120
<b>Poisoning by Solid or Liquid Substances (E950)</b>	1	1	2	18	32	21	10	7	0	92
<b>Poisoning by Gases or Vapors(E951-E952)</b>	0	0	0	8	13	3	2	3	0	29
<b>Cutting or Piercing Instruments(E956)</b>	0	1	0	2	3	1	0	2	0	9
<b>Submersion/Drowning (E954)</b>	0	0	0	0	0	0	1	0	0	1
<b>Other or Unspecified Means and Late Effects</b>	0	1	1	10	6	2	0	3	1	24
<b>TOTAL</b>	12	50	70	165	190	134	67	156	1	845

**TABLE 17**  
**SUICIDE MORTALITY BY MEANS OF INJURY AND GENDER,**  
**ARIZONA, 1998**

	<15	15-19	20-24	25-34	25-44	45-54	55-64	65+	Unknown	TOTAL
<b>Firearms and Explosives (E955)</b>	6	39	54	99	103	95	46	128	0	570
<b>Hanging, Strangulation or Suffocation (E953)</b>	5	8	13	28	33	12	8	13	0	120
<b>Poisoning by Solid or Liquid Substances (E950)</b>	1	1	2	18	32	21	10	7	0	92
<b>Poisoning by Gases or Vapors(E951-E952)</b>	0	0	0	8	13	3	2	3	0	29
<b>Cutting or Piercing Instruments(E956)</b>	0	1	0	2	3	1	0	2	0	9
<b>Submersion/Drowning (E954)</b>	0	0	0	0	0	0	1	0	0	1
<b>Other or Unspecified Means and Late Effects</b>	0	1	1	10	6	2	0	3	1	24
<b>TOTAL</b>	12	50	70	165	190	134	67	156	1	845

**TABLE 18**  
**SUICIDE MORTALITY BY MONTH OF OCCURRENCE AND AGE GROUP,**  
**ARIZONA, 1998**

		TOTAL	<15	15-19	20-24	25-34	35-44	45-54	55-64	65+	Unknown
<b>MONTH OF DEATH</b>	<b>JAN</b>	79	1	2	6	13	18	15	5	19	0
	<b>FEB</b>	58	1	5	6	8	15	11	4	8	0
	<b>MARCH</b>	69	1	4	7	15	12	11	5	14	0
	<b>APRIL</b>	70	0	5	8	15	14	8	9	10	1
	<b>MAY</b>	77	0	7	1	18	21	7	7	16	0
	<b>JUNE</b>	70	0	4	9	11	17	9	6	14	0
	<b>JULY</b>	80	3	2	4	18	15	16	8	14	0
	<b>AUG</b>	79	2	3	6	14	19	17	5	13	0
	<b>SEPT</b>	77	1	7	5	17	12	14	4	17	0
	<b>OCT</b>	58	0	6	5	13	11	9	4	10	0
	<b>NOV</b>	68	1	3	7	14	18	10	7	8	0
	<b>DEC</b>	60	2	2	6	9	18	7	3	13	0
<b>TOTAL</b>		845	12	50	70	165	190	134	67	156	1



**TABLE 19**  
**NUMBER OF SUICIDE DEATHS BY ETHNICITY, GENDER AND AGE GROUP,**  
**ARIZONA, 1998**

		<15	15-19	20-24	25-34	35-44	45-54	55-64	65+	Unknown	TOTAL
<b>ALL ETHNIC GROUPS</b>	<b>Male</b>	10	44	63	131	148	102	44	131	1	674
	<b>Female</b>	2	6	7	34	42	32	23	25	0	171
	<b>TOTAL</b>	12	50	70	165	190	134	67	156	1	845
<b>Non-Hispanic white</b>	<b>Male</b>	6	24	36	85	123	90	41	123	1	529
	<b>Female</b>	0	3	6	26	40	32	21	25	0	153
	<b>TOTAL</b>	6	27	42	111	163	122	62	148	1	682
<b>Hispanic</b>	<b>Male</b>	2	12	17	27	16	10	2	7	0	93
	<b>Female</b>	1	2	0	1	1	0	0	0	0	5
	<b>TOTAL</b>	3	14	17	28	17	10	2	7	0	98
<b>Black</b>	<b>Male</b>	0	1	1	3	1	2	0	0	0	8
	<b>Female</b>	0	0	1	1	0	0	1	0	0	3
	<b>TOTAL</b>	0	1	2	4	1	2	1	0	0	11
<b>American Indian</b>	<b>Male</b>	2	4	9	14	7	0	1	1	0	38
	<b>Female</b>	1	1	0	6	0	0	0	0	0	8
	<b>TOTAL</b>	3	5	9	20	7	0	1	1	0	46
<b>Asian</b>	<b>Male</b>	0	3	0	2	1	0	0	0	0	6
	<b>Female</b>	0	0	0	0	1	0	1	0	0	2
	<b>TOTAL</b>	0	3	0	2	2	0	1	0	0	8

**TABLE 20**  
**SUICIDE MORTALITY BY MEANS OF INJURY AND ETHNICITY,**  
**ARIZONA, 1998**

		Non-Hispanic white	Hispanic	Black	American Indian	Asian	TOTAL
<b>Firearms and Explosives (E955)</b>	<b>Count</b>	465	74	9	20	2	570
	<b>Percent</b>	68.2%	75.5%	81.8%	43.5%	25.0%	67.5%
<b>Hanging, Strangulation or Suffocation (E953)</b>	<b>Count</b>	83	14	1	20	2	120
	<b>Percent</b>	12.2%	14.3%	9.1%	43.5%	25.0%	14.2%
<b>Poisoning by Solid or Liquid Substances (E950)</b>	<b>Count</b>	85	4	0	2	1	92
	<b>Percent</b>	12.5%	4.1%	.0%	4.3%	12.5%	10.9%
<b>Poisoning by Gases or Vapors(E951-E952)</b>	<b>Count</b>	26	2	0	0	1	29
	<b>Percent</b>	3.8%	2.0%	.0%	.0%	12.5%	3.4%
<b>Cutting or Piercing Instruments(E956)</b>	<b>Count</b>	7	1	0	1	0	9
	<b>Percent</b>	1.0%	1.0%	.0%	2.2%	.0%	1.1%
<b>Submersion/Drowning (E954)</b>	<b>Count</b>	0	0	0	0	1	1
	<b>Percent</b>	.0%	.0%	.0%	.0%	12.5%	.1%
<b>Other or Unspecified Means and Late Effects</b>	<b>Count</b>	16	3	1	3	1	24
	<b>Percent</b>	2.3%	3.1%	9.1%	6.5%	12.5%	2.8%
<b>TOTAL</b>	<b>Count</b>	682	98	11	46	8	845
	<b>Percent</b>	100%	100%	100%	100%	100%	100%

**TABLE 21**  
**NUMBER OF SUICIDES BY SINGLE YEAR OF AGE AMONG PERSONS 19 OR YOUNGER,**  
**ARIZONA, 1998**

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>10</b>	0	0	0	0	0	0	0	0	0	2	1
<b>11</b>	1	0	0	0	0	2	1	0	1	0	1
<b>12</b>	0	0	1	4	2	2	4	1	0	1	3
<b>13</b>	1	1	1	1	2	4	2	6	0	2	2
<b>14</b>	3	2	2	1	6	3	2	4	6	2	4
<b>15</b>	7	1	4	5	3	4	7	8	7	6	5
<b>16</b>	6	13	8	8	6	12	7	8	12	10	10
<b>17</b>	7	12	10	14	8	10	10	16	6	15	12
<b>18</b>	13	11	9	9	7	12	21	11	21	21	15
<b>19</b>	14	11	11	13	10	20	17	9	10	23	8
<b>TOTAL</b>	52	51	46	55	44	69	71	63	63	82	62

**TABLE 22**  
**NUMBER OF SUICIDES BY SINGLE YEAR OF AGE AMONG ELDERLY 65 OR OLDER,**  
**ARIZONA, 1998**

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
65	5	8	9	5	3	7	5	7	3	8	5
66	5	4	3	8	6	5	2	9	8	6	6
67	7	7	9	9	10	7	9	6	6	6	7
68	5	11	6	2	6	8	3	8	7	2	6
69	8	9	11	8	11	7	11	8	7	4	3
70	7	7	11	11	10	8	7	11	4	6	7
71	7	4	5	10	4	4	9	4	6	11	4
72	3	11	6	2	8	7	7	5	2	12	5
73	10	9	7	10	7	6	11	8	8	8	4
74	5	7	9	7	6	13	8	12	7	4	11
75	12	3	7	12	6	6	9	10	8	11	10
76	3	6	9	6	6	7	9	5	6	10	9
77	7	10	6	6	7	7	5	10	8	8	13
78	8	11	5	6	6	3	4	7	9	4	6
79	9	8	5	3	4	5	4	5	4	6	10
80	4	8	6	9	4	1	4	8	4	6	3
81	8	10	4	4	12	8	6	9	4	7	6
82	6	4	5	4	5	5	1	11	6	4	4
83	6	4	5	2	2	8	3	5	4	4	6
84	6	3	2	2	6	6	3	3	4	7	4
85	2	1	3	5	6	5	1	5	4	7	3
86	1	2	1	3	2	7	1	4	5	2	5
87	2	1	3	3	5	2	5	0	6	3	5
88	4	3	3	3	0	2	1	3	5	2	3
89	0	2	2	1	2	2	3	2	2	3	4
90	1	1	3	2	0	2	2	3	2	1	2
91	0	0	1	1	0	1	3	1	1	0	2
92	1	1	2	0	1	1	0	0	1	0	3
93	0	0	1	0	1	0	1	0	0	1	0
94	0	0	1	0	0	0	1	0	2	1	0
95	1	1	0	0	0	1	1	0	1	0	0
96	0	0	0	0	2	0	0	0	0	0	0
99	0	0	0	0	0	0	2	0	0	0	0
102	0	0	0	0	0	0	0	1	0	0	0
<b>TOTAL</b>	143	156	150	144	148	151	141	170	144	154	156

**TABLE 23**  
**DIFFERENCES IN THE RISK OF SUICIDE DEATH AMONG NATIVE BORN AND**  
**NON-NATIVE BORN ARIZONANS, 1982-1998**

Arizona residents: *			
Age Group	Born in Arizona	Born elsewhere	Total
<b>Elderly, 65 years or older</b>			
Total persons in 1990	40,048	435,009	475,057
Total suicides, 1982-1998	125	2,209	2,334
Average annual suicide rate	<b>18.4</b>	<b>29.9</b>	<b>28.9</b>
<b>Persons 64 or younger</b>			
Total persons in 1990	1,205,308	1,972,484	3,177,792
Total suicides, 1982-1998	2,605	6,371	8,976
Average annual suicide rate	<b>12.7</b>	<b>19.0</b>	<b>16.6</b>
<b>Total , all age groups</b>			
Total persons in 1990	1,245,356	2,407,493	3,652,849
Total suicides, 1982-1998	2,730	8,580	11,310
Average annual suicide rate	<b>12.9</b>	<b>21.0</b>	<b>18.2</b>

\* Source: 1990 Census Public-Use Microdata Sample File. Population Statistics Unit in the Department of Economic Security.

**Average annual suicide rate** = Number of suicides per 100,000 persons in specified group per year. The 1990 census counts (i.e., population at mid-point) multiplied by seventeen were used as denominators for average annual rate calculation. The numerators exclude records with unknown age and/or state of birth.

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Our Web site at <http://www.hs.state.az.us/plan/ohpes.htm> provides instantaneous access to a wide range of statistical information about health status and use of health care in Arizona. The [\*Arizona Health Status and Vital Statistics\*](#) annual report examines trends in natality, mortality and morbidity towards established health objectives. Additional data can be found in the special reports and studies focused on differences in the health status by ethnic group, suicide mortality, unintentional injury mortality among children and adolescents, firearm-related fatalities, unintentional drowning deaths, drug-related mortality, teenage pregnancy and abortion practices in Arizona. The [\*Monthly Vital Statistics Bulletin\*](#) has the most up to date information on births, deaths, marriages and divorces.



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**Office of Epidemiology and Statistics  
Bureau of Public Health Statistics  
Public Health Services  
ARIZONA DEPARTMENT OF HEALTH SERVICES**

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